

Title (en)

WIRELESS DEVICE SLIDING IN SHORT-SIDE DIRECTION

Title (de)

ZUR KURZEN SEITE HIN VERSCHIEBBARE DRAHTLOSE VORRICHTUNG

Title (fr)

DISPOSITIF SANS FIL COULISSANT DANS LA DIRECTION DU CÔTÉ COURT

Publication

**EP 2302734 A4 20121107 (EN)**

Application

**EP 09797857 A 20090709**

Priority

- JP 2009062511 W 20090709
- JP 2008186207 A 20080717

Abstract (en)

[origin: US2010203930A1] At a side end section of a second housing 3, there are provided an antenna 9 which is arranged along the short-side direction of the housing, a first housing 1, a slide mechanism section S which connects the first housing 1 to the second housing 3 slidably relative to each other in the short-side direction of the housing, and joining sections 31 to 34 which connect the slide mechanism section S to the second housing 3. The slide mechanism section S is configured so that a large slide plate 17 and a small slide plate 15 are arranged in this order from the first housing between the first housing 1 and the second housing 3, so as to slide relative to each other. Further, in the direction (longitudinal direction) which intersects the sliding direction AR1, the plurality of joining sections 31 to 34 are arranged, and reactance elements 41 to 44 are arranged at the same positions as those of the joining sections 31 to 34 in the surface of the housing. In this way, at the joining sections 31 to 34, the small slide plate 15 and the large slide plate 17 of the slide mechanism section S are connected to the second housing 3 in terms of high frequency via the reactance elements 41 to 44. Further, an antenna feeding point 6 which supplies electric power to the antenna 9 is arranged on the side of the sliding joining section in the short-side direction of the second housing. Thereby, it is possible to secure excellent communication quality in the short-side direction slide type portable radio apparatus. fb

IPC 8 full level

**H01Q 1/08** (2006.01); **H01Q 1/24** (2006.01); **H04M 1/02** (2006.01)

CPC (source: EP US)

**H01Q 1/084** (2013.01 - EP US); **H01Q 1/243** (2013.01 - EP US); **H04M 1/0237** (2013.01 - EP US)

Citation (search report)

- No further relevant documents disclosed
- See references of WO 2010007932A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

**US 2010203930 A1 20100812**; **US 8311599 B2 20121113**; CN 101821901 A 20100901; CN 101821901 B 20130102; EP 2302734 A1 20110330; EP 2302734 A4 20121107; EP 2302734 B1 20140108; JP 5033200 B2 20120926; JP WO2010007932 A1 20120105; WO 2010007932 A1 20100121

DOCDB simple family (application)

**US 67830209 A 20090709**; CN 200980100631 A 20090709; EP 09797857 A 20090709; JP 2009062511 W 20090709; JP 2009554643 A 20090709